

ABSTRACT OF THE DISCLOSURE

A repeating apparatus disposed at an end point of each divisional repeating interval of a light transmission line performs a first dispersion compensation step, an optical add/drop multiplexing step and a second dispersion compensation step to perform repeating transmission. The ratio of an over compensation amount at the second dispersion compensation step to the sum of dispersion compensation amounts at the first and second dispersion compensation steps is set so as to gradually vary together with the transmission distance from the terminal apparatus for transmission at which the repeating apparatus is disposed on the light transmission line so that degradation of wavelengths to be received by the terminal apparatus for reception is suppressed while dispersion compensation is performed with a high degree of accuracy at each optical add/drop multiplexing point on the transmission line.